## **EXHIBIT D**

Declaration of Duncan A. Buell January 11, 2022

# IN THE UNITED STATES DISTRICT COURT FOR THE NORTHERN DISTRICT OF GEORGIA ATLANTA DIVISION

DONNA CURLING, et al.	
Plaintiff,	{ }    CIVIL ACTION FILE NO.:
vs.	1:17-cv-2989-AT
BRAD RAFFENSPERGER, et al.	{
Defendant.	
	}

#### **DECLARATION OF DUNCAN A. BUELL**

DUNCAN A. BUELL ("Declarant") hereby declares as follows:

- 1. I am a retired professor of Computer Science and Engineering at the University of South Carolina. I submit this declaration in support of the above captioned litigation to prohibit further use of Georgia's current Dominion BMD voting system..
- 2. Based on my research on the data provided by the state and by counties in Georgia from the November 2020 General Election and the January 2021 runoff election, it is my opinion that additional basic, and more complete, data must be provided in order to provide Coalition Plaintiffs' voting system experts with adequate information to reach conclusions on the root causes of the systemic discrepancies I have observed to date. The number of anomalies and discrepancies between the various sets of data provided are too great to assume they are simply the occasional errors made in an enterprise as large as a quadrennial election in Georgia. Further, for an appropriate and definitive examination,

access to target samples of paper ballots and their scanning records must be granted; given the anomalies and discrepancies detected in the November 3, 2020 election, it is impossible to determine which electronic version of the data should be considered to be operative. Based on what is known today from the incomplete election records provided by Defendants and Georgia counties, is very likely that examination of the paper records will lead experts to the conclusion that access to the key components of hardware and software used in the November 2020 election will be necessary to determine whether the significant discrepancies identified are caused by exploitation of the system's security vulnerabilities or human error or insider malfeasance. My background and opinions are set forth below.

#### Qualifications and Relevant Employment History

- 3. In 1971, I earned a B.S. in Mathematics from the University of Arizona. The following year, I earned an M.A. in Mathematics from the University of Michigan. In 1976, I earned a doctorate in Mathematics, with an emphasis in number theory, from the University of Illinois at Chicago. A copy of my resume is available on my university website at <a href="http://www.cse.sc.edu/~buell">http://www.cse.sc.edu/~buell</a>.
- 4. Prior to moving into my position at the University of South Carolina, I was employed for approximately 15 years (with various job titles and duties) at the Supercomputing Research Center (later named the Center for Computing Sciences) of the Institute for Defense Analyses, a Federally Funded Research and Development Center (FFRDC) supporting the National Security Agency. Our mission at SRC/CCS was primarily to conduct research on high performance computing systems and computational

mathematics to ensure that those computing systems would be suitable for use by NSA, since the NSA workload has technical characteristics different from most high-end computations like weather modeling. While at IDA, I played a leading role in a group that received a Meritorious Unit Citation from Director of Central Intelligence George Tenet for what was then "the largest single computation ever made" in the U.S. intelligence community.

- 5. From 2000 until my retirement on 1 January 2021, I was a Professor in the Department of Computer Science and Engineering at the University of South Carolina. From 2000 to 2009, I served as Chair of that department. During 2005-2006, I served as Interim Dean of the College of Engineering and Information Technology at the University of South Carolina. In my management capacity as department chair, my duties also included the management of the college's information technology staff and its network and computer center, which included 9 instructional labs with approximately 250 desktop computers. I was also responsible for the management and operation of cluster computers, file and mail servers, and the college's network infrastructure.
- 6. In 2013, I was elected a Fellow of the American Association for the Advancement of Science. In 2016, I was appointed to an endowed professorship, the NCR Chair in Computer Science and Engineering at the University of South Carolina.
- 7. My current research interests include electronic voting systems, digital humanities, high performance computing applications, parallel algorithms and architecture, computer security, computational number theory, and information retrieval.

Over the past 40 years, I have published articles in peer-reviewed journals and/or lectured on each of these topics.

- 8. Beginning about 2004 I worked with the League of Women Voters of South Carolina (LWVSC) as an unpaid consultant on the issue of electronic voting machines. South Carolina uses statewide the ES&S iVotronic Direct Recording Electronic (DRE) terminals and the corresponding Unity software. Beginning in summer 2010, I worked with citizen volunteer activists Frank Heindel, Chip Moore, Eleanor Hare, and Barbara Zia on acquisition by FOIA of the election data from the November 2010 general elections in South Carolina and on the analysis of that data. That work, based on data we acquired by FOIA, culminated in an academic paper that was presented at the annual USENIX EVT/WOTE (Electronic Voting Technology Workshop/Workshop on Trustworthy Elections) conference in August 2011. My work with the LWVSC continued. When the state of South Carolina acquired the 2010 election data from the counties and posted it on the SCSEC website, I analyzed that data as well. I have obtained and analyzed the data from the 2012, 2014, 2016, and 2018 elections in South Carolina, and I have also analyzed ES&S DRE-voting system data in more limited quantities from Colorado, Kansas, North Carolina, Pennsylvania, and Texas.
- 9. I have also analyzed, in limited quantity, data from the June 2020 statewide primary from the ES&S ExpressVote-based voting system purchased in 2019 by South Carolina to replace the iVotronic-based system. The ExpressVote is a Ballot Marking Device, usually referred to as a BMD. The ExpressVote can be viewed as the ES&S competition to the voting system marketed by Dominion and purchased by Georgia.

10. In March 2019 I was nominated by the county legislative delegation and the appointed by Governor Henry McMaster to the Board of Voter Registration and Elections of Richland County, South Carolina. I held this position until March 2021, when I resigned because I was moving in April 2021 from South Carolina to Ohio. I have also been asked to serve, and agreed to serve, as the technical lead on a third-party source code review of the ES&S voting system software, including the ExpressVote Ballot Marking Device components, as used in North Carolina. In that state, the law requires an escrow of code and a review of that code which do not seem to have taken place, and one of the recognized political parties has, as permitted by North Carolina law, sought such a third-party review.

#### **Basis for My Opinions**

- 11. I base the opinions in this declaration on my knowledge, skill, training, education, research, and experience: I have been programming computers for more than 50 years and was employed as a computer scientist for more than 40 years, working with computers and computer applications and operations and management of large computer networks, including file and mail servers that utilize the Internet.
- 12. I have conducted research on polling place operations in South Carolina, which has included assessing wait times and voting times at the DREs and BMDs, and I have been a poll observer and thus watched voter behavior as they voted on DREs and BMDs and the behavior of poll workers.
- 13. I also base my opinions primarily on an extensive analysis of the JSON (Javascript Object Notation) cast vote record files produced in Georgia in November

2020 and January 2021 and provided to me by the plaintiffs in this case, which I understand they obtained from State Defendants. Although it is somewhat tedious due to the quantity of data, I have focused primarily on Fulton County. All my work in this assignment has been based on examination of electronic files, not of the physical paper.

#### The Data As Provided Is Inadequate and Cannot Be Viewed As Authoritative

14. Although I have done an extensive analysis of the data from November 2020, and I can (and will below) draw conclusions from my analysis, I cannot with confidence say that the data provided should be treated as authoritative and I cannot say that the entire story of those Fulton County elections is presented in that data. Since there is a single voting system used statewide in Georgia, and since management and configuration of the election is the responsibility of the Secretary of State, it is very disconcerting that the data comes piecemeal, with different structures and file names, and that valuable data provided by some counties is missing from others. This is, for example, in very sharp contrast with the ballot level electronic data, including cast vote records, I used from South Carolina, that was provided by the state as public record. The South Carolina data was consistent, nearly complete and consistently presented, with only a few anomalies (in each biennial, if memory serves, there might be a different county whose data was corrupted and unusable and a handful of devices that had failed). This allowed for a reliable analysis and a comparison across counties, voting methods, and such. In contrast, the significantly incomplete Georgia data as presented to me can only be described as a "mess".

- 15. Not only is the Fulton County data significantly incomplete, but the electronic data files of the Election Project Packages obtained by order of this Court on December 3, 2021, were not provided in their original unmodified form in a zipped file as officials were required to produce at the close of the election. I obtained the electronic files from Coalition Plaintiffs, who represented to me that they forwarded the files to me in the same condition as they were received from Fulton County and State Defendants. I have reviewed correspondence from Coalition Plaintiffs' attorneys to attorneys for the State Defendants and Fulton Defendants detailing the missing records and unzipped modified condition of the records, which informs my concern about the ability to reasonably rely on the electronic records provided to me.
- 16. Coalition Plaintiff's attorneys' correspondence indicates the estimated number of electronic records missing. In Fulton County ballot images and their attached "AuditMark" tabulation interpretations are missing for approximately 360,000 BMD ballots and 6.4 million BMD votes they contain for in-person voting for the official certified count of all down ballot races. Approximately 17,800 images and the same number of .sha files are missing from the presidential recount. Approximately 11,000 .dvd files are missing from the presidential recount for Fulton's November 2020 election. Such electronic files are essential when testing the election records for consistency and accuracy. Significant numbers of missing files inhibits a complete authoritative analysis of causes or effects of potential impacts of malware, software bugs, equipment malfunction, human error or malfeasance by insiders.

17. The inability of the state and counties to provide complete, authoritative, and consistent data from the Dominion BMD system, coupled with the highly vulnerable nature of the BMD touchscreen machines, does, in my opinion, call into serious question whether voters in Georgia can feel confident that their votes have been cast as intended and counted as cast. I try to make it a practice not to attribute to malice that which is equally explained by incompetence or inattention, and I would not suggest (since I have no reason to suggest) that the data has been deliberately provided to the Coalition Plaintiffs only in part and in an inconsistent way. But the next mostly likely reason for the data being such a mess would be that it is unreasonable to believe that the Dominion BMD voting system can be used reliably. The kinds of mistakes in the data could come from mistakes by election workers, and the usual excuse for such mistakes is to attribute them to "human error".

18. But we also know, from Dr. Alex Halderman's report on the use of Dominion equipment in Antrim County, Michigan <sup>1</sup> that election workers can make mistakes because the human error occurred in the design and implementation of the system by the vendor. All the types of mistakes made in Antrim County with Dominion equipment have been made in South Carolina using its iVotronic system, and it is possible to make those mistakes only because the voting system software has not been sufficiently bulletproofed to ensure the mistakes are impossible to make. Indeed, I used these

<sup>&</sup>lt;sup>1</sup> Analysis of the Antrim County, Michigan November 2020 Election Incident https://www.michigan.gov/documents/sos/Antrim 720623 7.pdf

mistakes in my third-semester undergraduate class as examples of things students would lose points for were they to submit work that permitted those kinds of mistakes. One need not suggest malfeasance; if the system cannot be used as intended by the intended users, then it is the system that is at fault, not the users.

#### **Data Analysis Raises Serious Questions**

- 19. Although the data provided to me seems unlikely to be entirely reliable, I have nonetheless done some analysis on it. I have been provided with three sets of JSON cast-vote-records (CVRs) for the November 3, 2020 Fulton County election, and a set of numerous counties' election project packages forward to Coalition Plaintiffs by State Defendants for the November 2020 and January 2021 elections. Two of the three CVR files are of the original count, which is the final certified count for all races other than for President of the United States; the third is the CVR from the Presidential recount. I have also visually reviewed targeted samples of ballot images, generally those representing problematic ballots such as those which appear to have been counted multiple times in the official counts.
- 20. The significance of the missing and unverified files cannot be overstated in the limitations they place on expert analysis. For example, while I worked extensively with Fulton's cast vote records, roughly 34% of the ballot images and often the .dvd and .sha related files were simply missing, preventing me from consulting those files for confirmation of the fidelity of the data with the image and its related files. It is my understanding that while Coalition Plaintiffs desire that I analyze Cobb County's cast

vote records and other electronic records, a full 50% of the required records have not been preserved by Cobb County.

- 21. There is no question about the relevance of ballot images and related .sha and .dvd files and complete Election Project Packages to any examination of the November 2020 electronic election records. The Dominion records in a digital-only record the interpretation of each ballot and appends that record to the image. The digital ballot image and the AuditMark interpretation are the records reviewed by the bi-partisan review boards in deteremining how to adjudicate voters' marks on ballots when human review is required. From a voting system security perspective, destruction of these records is unjustifiable, given Georgia's election record preservation legal requirements, the federal statute requiring 22 months retention, and what I presume to be the preservation obligations related to this lawsuit. The US Department of Justice released a bulletin in July 2021 reinforcing the importance of electronic election records retention.<sup>2</sup>
- 22. Access to the paper ballots and scanning records and extensive testing of them is needed to provide assurance of accurate tabulations, but such access and was not permitted at this stage of the litigation.
- 23. I have written programs to read the data files and output a large file with one line for each ballot; the format is similar to a CSV from an Excel spreadsheet, but easier for subsequent programs of mine to read and compare. For each ballot, I have recorded the precinct portion, the ballot style, the "counting group" of how the ballot was cast

<sup>&</sup>lt;sup>2</sup> page 2 https://www.justice.gov/opa/press-release/file/1417796/download

(Election Day, absentee by mail, early, or provisional), the tabulator number, batch number, sequence number within each batch, and then the list of candidate numbers. I have deliberately ignored the generic write-in numbers and the numbers for registered write-in candidates. I have, however, recorded the CvrExport\_xxx.json filename in which that ballot is found.

24. The JSON filename, tabulator, batch, and sequence numbers will (unless there is an extraordinary coincidence) be different for a ballot recorded in the original CVR when compared to a ballot in the recount CVR. However, one can view the rest of each line for a ballot as a "signature": in that precinct portion, with that ballot style, cast in that fashion, what the actual choices are recorded on the ballot image. I use the term "signature" of the ballot image to mean a index created in our analysis of the ballot images where we combine key attributes of the ballot (like precinct and style) with letter codes indicating the ballot choice in each contest. The combined codes create a pattern that gives us considerable information in one alpha-numeric string about each ballot. If there were say 35 ballots in a given precinct with exactly the same candidate choices made we can verify that there should be 35 votes for each of the candidates chosen, coming from that particular pattern of choices made, and for the purpose of counting votes for candidates, and of matching ballots in the original with ballots in the recount. This would be 35 instances of the "signature" for each such ballot. It is only necessary to match the count for each pattern (signature); if there are 35 instances of that pattern in that precinct, style, and counting group, in the original, but only 34 in the recount, then one of those ballot records is missing from the JSON files I am analyzing, and each

candidate chosen in the original ballots has had their vote total diminished by one. The individual ballot content indices, the "signatures," are a fundamental analytical tool in detecting duplicate and ballots that cannot be matched from the original to the recount data.

- 25. Given the nature of the BMDs, however, the actual choices of the voters cannot be known when they vote on the touchscreen BMDs, as has been thoroughly explained in the declarations of Professor J. Alex Halderman, Professor Andrew Appel, Professor Philip Stark, Professor Richard DeMillo, and Harri Hursti. Therefore my electronic data analysis can only begin with the marks as recorded on the electronic record, ignoring the important truth that such marks may not represent the actual choices of the BMD voters.
- 26. The two "original" CVRs provided to me appear to be identical, at least as far as the CVR itself is concerned.
- 27. When comparing the electronic cast vote records of the initial count to the cast vote records of the Presidential recount (which also recorded, but did not officially count, the down ballot races), a suprising and significant number of discrepant cast vote records were detected. The two primary types of such discrepant records were 1) the double- and triple counting of some ballots, and 2) the interpretations of some ballots that appeared only once between the original count and the recount. The two counts should have obviously produced a one to one relationship of exactly the same ballots interpreted exactly the same way, but the analysis does not show such an expected relationship.

- 28. By creating "signatures" for each ballot image available, Coalition Plaintiffs' analysts identified examples of ballot images that appeared to be duplicate and triplicate images of exactly the same ballot and presented them to me for review. While it is infeasible to visually review all ballot images, I reviewed a significant number of images which appear to me to be of duplicates or triplicates of the same ballot. I can confirm from the cast vote records that these identical ballot images were actually counted in the tabulation multiple times.
- 29. This is not a normal expected typical election administration error. It is completely unacceptable for a system to operate in a manner where widespread double-and triple-counting of ballots can occur undetected. Certainly this represents a failure of both the post election audit and the certification and canvassing process, although we do not know the root cause of the multiple counts of the same ballots.
- 30. Coalition Plaintiffs analysts currently estimate the vote count effect of the double counted ballots to be approximately 400 additional ballots in the original count and about 3,000 in the presidential recount. These estimates seem reasonable in my view based on the analysis I have conducted, however it is infeasible to attempt to personally confirm every ballot image suspected of being counted multiple times. Additionally, some 700 estimated duplicates of BMD ballot images that are part of the the nearly 18,000 missing Fulton recount images cannot be visibly visually confirmed but reasonable conclusions can be drawn by noting identical characteristics in sequences of BMD cast vote records that indicate that such sequences of ballots were double and triple counted.

- 31. I have, however, tried to match up the ballot signatures from the original data and from the recount data, and I come up with thousands of "mismatched" ballots county-wide. In Fulton County, for example, there are 528,776 ballots in the original JSON data and 527,925 in the recount data, a difference of 851 fewer in the recount. Of these, more than 500,000 signatures in the JSON data in the original match up with signatures in the recount, but there are thousands of ballots in the original that do not match a ballot in the recount, and vice versa.
- 32. It cannot be determined from a review of the electronic records available whether the "mismatches" represent physically different ballots scanned in the two official counts, or whether the scanner/tabulators interpreted the votes marked on the *same* set of ballots differently for the first count than from the second count. As has been clearly demonstrated by years of scientific research on electronic voting system processes, malware, programming errors, or configuration errors can cause voter marks to be changed in electronic election records. The "mismatches" may well represent the *same* physical ballots interpreted differently by the system in the two counts and therefore have different signatures. That differing interpretation could be caused by a wide variety of conditions or malicious attack, but the reason for the difference cannot be determined from the electronic records made available to me.
- 33. The possibility of such malware or programming or configuration errors cannot be ruled out until the paper ballots and related electronic records are reviewed. In my opinion, it is imperative for Plaintiffs and State officials promptly to determine factual reasons for these mismatches and mitigate the unacceptable flaw in the voting

system and processes. Whether the cause of the mismatches is physically different ballots being scanned in the two counts or conflicting electronic interpretation of voters, neither is an acceptable condition for a public election.

34. A small caveat must be made. I am matching electronic ballot records by signature. If there were to be three ballots with the same signature in the original data but only two in the recount data, without a review of the images or the paper record, I would not be able to determine which of the three original ballots was not included in the recount, but I can conclude that one of the three was not counted, and thus that the candidates chosen by that voter did not get an accurate count of votes cast.

#### **Review of Donna Curling's RW01 Precinct Tabulation**

35. The variety and location of errors and discrepancies in the Fulton County files is significant and difficult to analyze using incomplete records and without access to the paper documents, so focus on a sample precinct is useful for analysis. Therefore, I have particularly focused on detected discrepancies in Plaintiff Donna Curling's home precinct of RW01 (Fulton County). Instances of double-counting of BMD ballots and both double- and triple-counting of hand-marked paper ballots occurred in RW01. Seven of triple-counted and three of double-counted ballots have been detected in Ms. Curling's precinct. Analysts have found it possible to identify the images that were counted multiple times which represent hand marked paper ballots, because each ballot has slightly unique markings in each oval and images counted multiple times generally can be confirmed as representing the same ballot.

- 36. An example of a triple counted hand marked paper ballot is attached at Exhibit A.
  - 37. An example of a double counted BMD ballot is attached at Exhibit B.
- 38. It is likely that the number of BMD ballots counted multiple times is greater than the number so far detected because machine markings of ballots generally make them indistinguishable, except for write-ins or unintentional artifacts from the scanning process.
- 39. The Secretary of State's certified results show a total of about 4250 ballots in Ms. Curlings' RW01 precinct in the original and the recounted data. Specifically in RW01, I find that 118 ballot records in the original data do not match with a ballot record in the recount data, and 114 ballots in the recount data do not match with a ballot in the original data. There appears to be no localized isolating explanation; the mismatches occur across precincts, tabulators, batches, and counting groups. Vote counting errors of this magnitude (more than 2-1/2%) are unacceptable for any voting system or election tabulation process. I have not examined or heard of an election in the United States with errors of this type or this magnitude. It should be noted that it is impossible to determine the exact impact of these discrepancies on the November election results, but all of my analysis and the analysis that I have seen of Coalition Plaintiffs' analysts indicate that there is a pattern of offsetting errors in the presidential election, but no major net change has been noted to date.
- 40. The root cause of the differing interpretations of what should be the same paper ballots cannot be determined without access to hardware and software that may

have interpreted the same ballots in different ways, and access to the original paper ballots to determine the accurate interpretation of the voters' marks.

- 41. Alternatively, an inspection of the paper ballots could conclude that groups of different paper ballots were used in the original count versus the recount. With the incomplete and unreliable electronic records available no reasonable conclusions can be drawn as to what types of vulnerabilities may have been exploited intentionally or unintentionally.
- 42. The significant changes in certain subsets of the three counts are generally consistent with types of tabulation anonmalies explained above. For example, the official Election Day ballot vote count (as reported on the Secretary of State's webpage) for Donald Trump varied from 202 for the first machine count to the audited tally of 243 to the final official count of 167. President Biden Election Day ballot vote tallies varied from 92 initially to an audited tally of 88 and a final machine recounted total of 76. The fact that such differences between the hand counted audited ballot tallies and the official machine count tallies differs by this much signals that tabulation and auditing processes are flawed and strongly argue for intense objective expert examination and considerable mitigation efforts. It should be the case that counts are consistent and exact. (I remember calling into question the count in Richland County that was off by one ballot, and being told that that particular ballot was a Provisional ballot that was rejected. Any differences in counts should be entirely explainable and effort should be made to explain them)
- 43. The fact that such audit discrepancies at a precinct level did not cause precertification investigations of the count variances is unacceptable; it essentially defeats

the purpose of an audit if signficant discrepancies are ignored and chalked up to "human error" as they seem to have been at least in the case of the Fulton County audit.

- 44. I have no doubt that a deeper analysis of mismatched ballots across precinct lines would have similar results to the results of the RW01 precinct. The vast majority of Fulton County precincts appear to have mismatched ballots.
- 45. The nature of the anomalies in Fulton County must be seen to be deeply disturbing. If anomalies were concentrated in a few precincts, or related to specific tabulators, or such, then one might assume a specific malfunction. I saw this in the South Carolina data, where all the data from one particular malfunctioning device would be missing.
- 46. In Fulton precinct 826-03I, for example, there are 528 ballots that match in the original and the recount data, but 142 ballots in the original that do not occur in the recount. A closer examination shows that 127 of the 142 are from tabulator 456 and batch 0. This would appear to be a localized error. The fact that the overwhelming majority of the Fulton precincts have mismatched ballots would appear much more likely to be a systemic error in the voting system. Expert examination of the paper ballot records and the tabulation server and related software is essential for an understanding of the source of the tabulation discrepancies.
- 47. Given the level of tabulation discrepancies in Fulton's November 2020 election, the hand count audit must be considered a failure, and a failure that should have immediately triggered a serious analysis and mitigation of voting system deficiencies to ensure that future elections permit voters to cast an accountable vote.

#### Other System Deficiencies Detected

- 48. The anomalies are not confined to Fulton County. In Bartow County, although the number of ballots in the CVR is only three smaller in the recount, there are 250 mismatches in the original data and 247 mismatches in the recount, out of a total of just over 50 thousand ballots. Detailed examination of these mismatches shows that the differences often but not always lie in one contest for ballots scanned with tabulator 530. Curiously, in precinct 207-WOOD, tabulator 530, batch 88, sequence numbers 76 through 82 all are mismatches in the recount, with the only vote choices being for the Democrat for president in the first two and for the Republican for president in the next five.
- 49. A modern voting system should only permit ballots printed for the correct specific election and jurisdiction to be scanned and tabulated. However, the Dominion system was configured in Fulton County in a manner that permitted out of county ballots or ballots cast in a different election to be scanned and tabulated. For example several DeKalb County November 2020 ballots were accepted and counted in Fulton. Although the votes were marked for *DeKalb* candidates after the statewide candidate section of the ballot, the votes were tabulated for *Fulton* candidates whose names were on the ballot in the same position of the DeKalb candidate chosen.
- 50. The error can be seen on Exhibit C which is a group of original count and recount DeKalb County ballot images, cast and counted for Fulton candidates. The voters

marks can be seen on pages one and two of the ballots voting for DeKalb candidates and ballot questions. Reviewing page 3 shows the interpretation of the votes, where Fulton County candidates were given the vote cast for another candidate.

- 51. The fact that this error can occur is evidence of poor design and non-compliant use. The errors that resulted in the wrong ballots being cast and counted are a classic example of a combination of system design problems coupled with election worker error and inadequate audit procedures.
- 52. Another issue demonstrating a lack of proper electronic security controls is the off-hours adjudication of ballots, which literally changes votes in the system based on decisions during human inspection of the images. Exhibit D is an example of a ballot scanned at 2:35AM on November 5, and adjudicated at 5:10AM that day. Note that the third page of the DeKalb ballot in Exhibit C shows a ballot adjudication time of 2:15AM.
- 53. It is my understanding that Fulton Defendants represented to Coalition
  Plaintiffs that ballots were not adjudicated without the involvement of bi-partisan Vote
  Review Panels, and that such review panels did not meet prior to 7am. The vote
  adjudication times of 2:15 AM and 5:10AM and therefore suggests that unauthorized
  electronic vote adjudication was taking place, and at a time of day when there would have
  been little citizen or management oversight. These facts point out the security risk of
  using electronic adjudication of ballots, allowing changes in the vote count by people
  with access to the system. An alternative explanation is that the timer inside the
  computers recording adjudication was incorrect. This would be a different but also
  serious indication of inadequate care taken in processing ballots from the election.

54. If the timer is correct, and the times shown are correct (meaning that the software correctly read the timer value and converted it to human-readable date and time) the timer's records off-hours recording would be evidence of apparent unauthorized access to the system by people possessing credentials to sign into the server and make vote changes in off hours. This reinforces the need to conduct a thorough examination of the system logs, server, paper ballot records and the related complete electronic records to determine the cause of the discrepancies and to install mitigating system controls for future elections.

#### **Summary and Conclusions**

- 55. The errors and discrepancies noted to date in the partial electronic records provided cannot be viewed in isolation and without consideration of Dr. Halderman's July 1 report on the extreme and wide-ranging security vulnerabilities of the BMD system. The report explains the many (and mostly obvious) attack surfaces that invite undetectable electronic manipulation of an election, including an attacker's ability to deliver malware that infects components and software throughout the system, not limited to BMD ballots.
- 56. In my opinion, the concerning discrepancies of the type detected in the November 3, 2020 election may have been caused by system malfunctions, malware, by election workers at the state or county level, a systemic desire of election workers to "just get the job done" instead of to "get the job done right", or perhaps even malfeasance. However, it is my understanding that Fulton County Defendents have stated in their

discovery responses that ballots were not double scanned and then double-counted. The double *counting* certainly took place. Physical double-scanning is a serious enough problem. But if Fulton Defendants are correct in their statement that double *scanning* did not take place, we must assume that the devices used (scanners and tabulators) produced the duplicated ballots either due to bad software from the vendor or intentional duplication by software inserted after the vendor's installation of the software. Urgent and expert analysis should be underway by Georgia officials to investigate the root cause of the tabulation problems and install immediate mitigations where possible.

- 57. However, so long as the Dominion BMD touchscreen units are in use, Dr. Halderman's findings would indicate that vote discrepancies similar to those described above, if caused by malware, could not be reasonably prevented. The solution to Georgia's election verification shortfall undeniably lies in 1) the implementation of hand marked paper ballots as the standard voting method to obtain a trustworthy source document, 2) chain of custody controls, 3) comprehensive ballot accounting and canvassing procedures, and 4) robust post-election audits of the type recommended by Dr. Stark. These basic elements are essential to ensure that Georgia voters an cast an accountable vote.
- 58. It is my understanding that neither State Defendants nor Fulton Defendants have sought access to Dr. Halderman's report on the dangerous vulnerabilities of the Dominion BMD system, nor have they undertaken any efforts to address the security risks associated with the use of the equipment, despite the concerning tabulation errors in November 2020 election, and unresolved discrepancies in the post-election audit.

59. Meaningful assessments by voting system experts of the cause and recommended mitigation of the discrepancies detected in the November 2020 election will require access to paper ballots, scanning documents, tabulation equipment and related software and in-depth analysis of all.

I declare under penalty of perjury, in accordance with 28 U.S.C. § 1746, that the foregoing is true and correct.

Executed on this date, January 11, 2022.

DUNCAN ALAN BUELL

## Exhibit A

	FULTON COUNT 779-RW01	
OFFICIAL ABSEN	ITEE/PROVISIONAL/	EMERGENCY BALLOT
OFFICIAL G	ENERAL AND SPECIAL E OF THE STATE OF GEO NOVEMBER 3, 2020	RGIA
To Vote  1. Use black or blue ink to mark the ballot		Warning Do NOT use red ink or felt tip pen to mark belict
Completely fill in the empty oval to the lef all races you wish to vote     If voting for a Write-In candidate, complet the Write-In selection, then write the name of	tely fill in the empty oval to the left of	Do <u>NOT</u> circle, underfine or mark through choices Do <u>NOT</u> use check marks or X to mark ballot Do <u>NOT</u> mark more choices per reso than allowed Do <u>NOT</u> sign, cut, toar or damage the ballot
if you make a mistake or change your mi	nd on a selection:	
A. Do not attempt to mark through the select B. Mail or raturn the spoiled ballot and enve	tion or attempt to erase. Write "Spotle lope to your county board of registrars	ed" scross the belief and across the return envelop ; a new official absentee ballot will be mailed to you
which you are assigned. You will then be po	tolise rapper a ctoy of betiteme	sarly voting site within your county or the precinct to
Tunderstand that the offer or acceptance of money or a election constitutes an act of voter i	ny other object of value to vote for any particula fraud and is a falony under Georgia Iow." (O.C.	er candiciste, list of candicistes, issue, or list of issues included in a G.A. 21-3-284(e), 21-3-285(t) and 21-3-393(e)]
For President of the United States (Vote for One)	SPECIAL ELECTION	For Public Service Commissioner (To Succeed Jason Shaw)
Donald J. Trump - President     Michael R. Pence - Vice President     (Incumbent) Republican	For United States Senate (To Fill the Unexpired Term of Johnny Isakson, Resigned) (Vote for One)	of   C Jason Shaw
	Al Bartall Independent	Robert G. Bryant Democrat
<ul> <li>Joseph R. Bilden - President Kamata D. Harris - Vice President Democrat</li> </ul>	Alten Buckley Independent	Elizabeth Melton Ubertarian
Jo Jorgensen - President Jeremy "Spike" Cohen - Vice President Libertarian	O Doug Collins Republican	○   Witte-In
0	John Fortuin Green	For Public Service Commissioner (To Succeed Lauren Bubba McDonaid, J
Mala I	O Derrick E. Grayson Republican	(Vote for One)  Leuren Bubba McDonald, Jr.
Write-in  For United States Senate (Vote for One)	Michael Todd Greene Independent	(incumbent) Republican  Daniel Blackman
Ozvid A. Perdus (seumbert) Republican	Annette Davis Jackson Republican	Democrat  Nathan Wilson
<ul> <li>Jon Ossoff Democrat</li> </ul>	O Deborah Jackson Democrat	Libertarian
Shans Hazel Libertarian	O Jamesia James Democrat	Write-in For U.S. Representative in 117th
Wittedn	A. Wayne Johnson Republican	Congress From the 6th Congressional District of Georgia (Vote for One)
	Tamara Johnson-Shealsy Democrat	Karen Handel Republican
	Matt Lieberman Democrat	Lucy McBath (Incumbent) Democrat
	C Kelly Losffler (Incumberit) Republican	Write-in
	Ogy Felicia Stade Democrat	For State Senator From 56th District (Vote for One)
	Brian Slowinski Libertarian	John Albers (Incumbent) Republican
	Valencia Stovati Independent	Szrzh Beeson Democrat
	Ed Tarver Democrat	
	C Kandiss Taylor Repubscan	Write-In
	Raphael Warnock Democrat	l İ
	Richard Dien Winfield Democrat	1
	Write-In	
	<del></del>	

**STNENDMENTS** 

CONSTITUTIONAL

**DECPOSED** 

(Acts for One)

48th Diatrict

In the General Assembly From

For State Representative

00794\_00018\_000011.tif scanned at: 12:43:15 on 12/02/20.

Scanned on: ICC Tabulator: 794 Batch: 18

Poll ID: 317 Ballot ID: 676

**President of the United States** 

Joseph R. Biden (Dem)

US Senate (Perdue)

Jon Ossoff (Dem)

US Senate (Loeffler) - Special

Raphael Warnock (Dem)

**Public Service Commission District 1** 

Robert G. Bryant (Dem)

**Public Service Commission District 4** 

Daniel Blackman (Dem)

**US House District 6** 

Lucy McBath (I) (Dem)

State Senate District 56

Sarah Beeson (Dem)

**State House District 48** 

Mary Robichaux (I) (Dem)

**District Attorney - Atlanta** 

Fani Willis (Dem)

**Clerk of Superior Court** 

Cathelene "Tina" Robinson (I) (Dem)

Sheriff

Patrick "Pat" Labat (Dem)

**Tax Commissioner** 

Arthur E. Ferdinand (I) (Dem)

Surveyor

**BLANK CONTEST** 

Solicitor General

Keith E. Gammage (I) (Dem)

**County Commission District 2** 

Justin Holsomback (Dem)

Soil and Water - Fulton County

Alan Toney (I)

**Constitutional Amendment #1** 

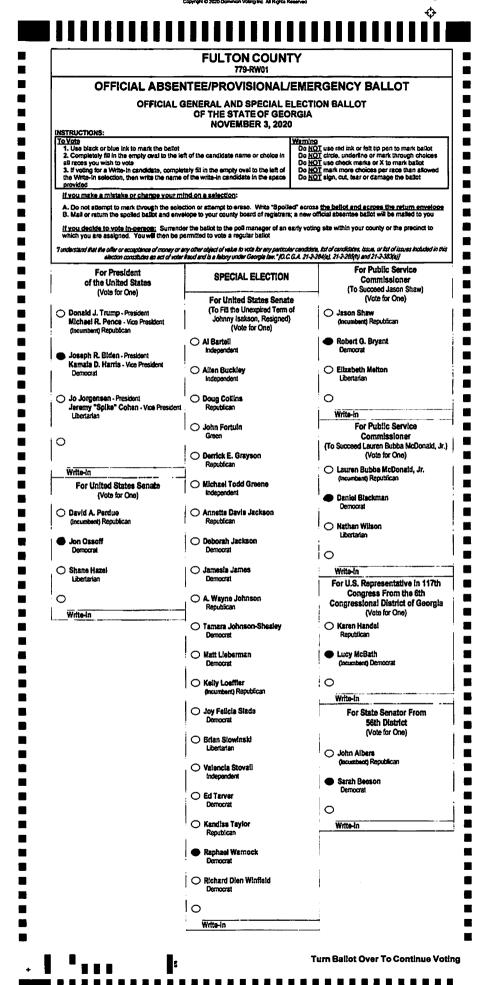
YES

**Constitutional Amendment #2** 

**YES** 

Statewide Referendum A

NO



00791\_00019\_000082.tif scanned at: 15:29:05 on 11/30/20.

Scanned on: ICC Tabulator: 791 Batch: 19

Poll ID: 317 Ballot ID: 676

**President of the United States** 

Joseph R. Biden (Dem)

US Senate (Perdue)

Jon Ossoff (Dem)

US Senate (Loeffler) - Special

Raphael Warnock (Dem)

**Public Service Commission District 1** 

Robert G. Bryant (Dem)

**Public Service Commission District 4** 

Daniel Blackman (Dem)

**US House District 6** 

Lucy McBath (I) (Dem)

State Senate District 56

Sarah Beeson (Dem)

**State House District 48** 

Mary Robichaux (I) (Dem)

**District Attorney - Atlanta** 

Fani Willis (Dem)

**Clerk of Superior Court** 

Cathelene "Tina" Robinson (I) (Dem)

Sheriff

Patrick "Pat" Labat (Dem)

**Tax Commissioner** 

Arthur E. Ferdinand (I) (Dem)

Surveyor

**BLANK CONTEST** 

Solicitor General

Keith E. Gammage (I) (Dem)

**County Commission District 2** 

Justin Holsomback (Dem)

Soil and Water - Fulton County

Alan Toney (I)

**Constitutional Amendment #1** 

YES

**Constitutional Amendment #2** 

YES

Statewide Referendum A

NO

	FULTON COUNT 779-RW01	I
OFFICIAL ABSEN	ITEE/PROVISIONAL/	EMERGENCY BALLOT
OFFICIAL G	ENERAL AND SPECIAL E	
INSTRUCTIONS:	NOVEMBER 3, 2020	
To Vote  1. Use black or blue ink to mark the ballot		Warning Do NOT use red ink or felt tip pen to mark ballot
Completely fill in the empty oval to the left all races you wish to vote		Do NOT circle, underline or mark through choices Do NOT use check marks or X to mark battot Do NOT mark more choices per race than allower
<ol> <li>If voting for a Write-In candidate, complet the Write-In selection, then write the name of provided</li> </ol>	of the write-in candidate in the space	Do NOT sign, cut, tear or damage the ballot
If you make a mistake or change your mi		
A. Do not attempt to mark through the select     B. Mail or return the spoiled ballot and enve	tion or attempt to erase. Write "Spoile lope to your county board of registrars;	d" across the ballot and across the return envelo a new official absentee ballot will be mailed to you
If you decide to yote in-person: Surrende which you are assigned. You will then be pe	or the ballot to the poll manager of an elemitted to vote a regular ballot	any voting site within your county or the precinct to
"I understand that the offer or acceptance of money or a election constitutes an act of voter i	ny other object of value to vote for any particula fraud and is a failury under Geomio law. "10.0 (	r candidate, Est of candidates, issue, or Est of issues included in G.A. 21-2-284(e), 21-2-285(h) and 21-2-333(e)]
For President	SPECIAL ELECTION	For Public Service
of the United States (Vote for One)	SPECIAL ELECTION	Commissioner (To Succeed Jason Shaw)
(void on one)	For United States Senate	• 1 _
Onald J. Trump - President Michael R. Pence - Vice President	(To Fill the Unexpired Term of Johnny Isakson, Resigned)	
(Incumbent) Republican	(Vote for One)	Robert G. Bryant
■ Joseph R. Biden - President	independent	Democrat
Kamala D. Harris - Vice President Democrat	Allen Buckley	C Elizzbeth Melton
	Independent	Libortarian
Jo Jorgensen - President Jeremy "Spike" Cohen - Vice President	Obug Collins Republican	10
Libertarian	•	Write-In
_	O John Fortuin Green	For Public Service Commissioner
O	Derrick E. Grayson	(To Succeed Lauren Bubba McDonald, (Vote for One)
Write-in	Republican	Cauren Bubba McDonald, Jr.
For United States Senate	Michael Todd Greens	(Incumbent) Republican
(Vote for One)	Independent	Daniel Blackman Democrat
David A. Perdue     (Incumbent) Republican	Annette Davis Jackson Republican	1
		Nathan Wilson Libertarian
<ul> <li>Jon Ossoff Democrat</li> </ul>	Denocrat Jackson	10
○ Shane Hazel	 ! O Jamesia James	Write-In
Libertarian	Democrat	For U.S. Representative in 117t
0	A. Wayne Johnson Republican	Congress From the 6th Congressional District of Georg
Write-in	· •	(Vote for One)
	Tamara Johnson-Shealey Democrat	Karen Handel Republican
	Matt Lieberman	Lucy McBath
	Democrat	(incumbers) Democrat
	Kelly Loeffler	0
	(Incurabent) Republican	Write-in
	Joy Felicia Stade	For State Senator From
		56th District (Vote for One)
	Brian Stowinski Libertarian	   O John Albers
	   O Valencia Stovali	(Incumbert) Republican
	Independent	Sarah Beeson
	○ Ed Terver Democrat	Democrat
		0
	C Kandiss Taylor Republican	Write-In
	Raphael Warnock Democrat	
		t t
	C Richard Dien Winfield   Democrat	
		ļ
	1 <b>O</b>	L L

PROPOSED

For State Representative

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Scanned on: ICC Tabulator: 791 Batch: 26

Poll ID: 317 Ballot ID: 676

**President of the United States** 

Joseph R. Biden (Dem)

**US Senate (Perdue)** 

Jon Ossoff (Dem)

US Senate (Loeffler) - Special

Raphael Warnock (Dem)

**Public Service Commission District 1** 

Robert G. Bryant (Dem)

**Public Service Commission District 4** 

Daniel Blackman (Dem)

**US House District 6** 

Lucy McBath (I) (Dem)

State Senate District 56

Sarah Beeson (Dem)

**State House District 48** 

Mary Robichaux (I) (Dem)

**District Attorney - Atlanta** 

Fani Willis (Dem)

**Clerk of Superior Court** 

Cathelene "Tina" Robinson (I) (Dem)

Sheriff

Patrick "Pat" Labat (Dem)

**Tax Commissioner** 

Arthur E. Ferdinand (I) (Dem)

Surveyor

**BLANK CONTEST** 

Solicitor General

Keith E. Gammage (I) (Dem)

**County Commission District 2** 

Justin Holsomback (Dem)

Soil and Water - Fulton County

Alan Toney (I)

Constitutional Amendment #1

YES

**Constitutional Amendment #2** 

YES

Statewide Referendum A

NO

### Exhibit B

1/1

r U.S., Representative in 11 /tri om the 6th Congressional Dist sorgia (Vote for One) (NP) Vote for Karen Handel (Rep) BLANK CONTEST
For Surveyor (Vole for One) (NP)

For Tax Commissioner (Vote for One) (NP) Vote for Arthur E. Ferdinand (I)

Statewide Referendum A (NP) Yote for YES For Sheriff (Vote for One) (NP) Vote for Patrick "Pat" Labat (Dem) Constitutional Amendment #2 (VP)
Vote for NO

For District Attorney of the Atlanta Ju Circult, (Yote for One) (WP) Vote for Fani Willis (Dem)

For Fulton County Soil and Water Conservation District Supervisor (Vote fo One) (VP) Vote for Alan Toney (I)

For State Representative in the Gener-Assembly From 48th District (Vote for Onel (NP) Vote for Betty Price (Rep) For Fulton County Commissioner Froi District No. 2 (Yote for One) (NP) Vote for Bob Ellis (I) (Rep)

r Public Service Commissione : One) (NP) Vote for Jason Shaw (I) (Rep)

r State Senator From 56th District ste for One) (NP) Vote for John Albers (I) (Rep)

For United States Senate (Perdue) (Vota for One) (WP) Vote for Dabid A. Perdue (I) (Rep)

vote for Donald J. (rump (i) (kep) esident of the United States (Vote (VP)





"I understand that the offer or acceptance of money or any other object of value to vote for any particular candidate; list of candidates, issue, or list of issues included in this election constitutes an act of voter fraud and is a falony under Georgia law, "(O.C.G.A. 21-2-284(e)), 21-2-285(f)) and 21-2-365(e)]

NOVEMBER 3, 2020 OF THE STATE OF GEORGIA GENERAL AND SPECIAL ELECTION

**OFFICIAL BALLOT** 

**ЕПГТОИ СОПИТУ** 

iii. £80000\_\p\000\_10800

L/L

BLANK CONTEST

Statewide Referendum A (NP) Vote for YES

For District Attorney of the Atlanta | Circuit (Vote for One) (NP) Vote for Fani Willis (Dem) For Fulton County Soil and Wate Conservation District Supervisor One) (NP) Vote for Alan Toney (I) For State Representative in the General Assembly From 48th District (Vote for One) (NP) Vote for Betty Price (Rep) For Fulton County Commissioner District No. 2 (Vote for One) (NP) Vote for Bob Ellis (I) (Rep)

For State Senator From Seth District (Vote for One) (NP) Vote for John Albers (I) (Rep)

(dey) ispuert usies (keb)

Vote for David A Perdue (I) (Rep) For United States Senate (Perdue) (Vote for One) (NP)

or President of the United States (Vote or One) (NP)

Vote for Donald J. Trump (I) (Rep)





"I understand that the offer or acceptance of money or any other object of value to vote for any particular can Itst of candidates, issue, or list of issues included in this election constitutes an ect of voter finud and is a fe under Georgia law, "[O.C.G.A.2"], 21-2-284(e), 21-2-285(h) and 21-2-383(a))

NOVEMBER 3, 2020 GENERAL AND SPECIAL ELECTION OF THE STATE OF GEORGIA

**OFFICIAL BALLOT** 

**ЕПГТОИ СОПИТУ** 

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00801\_00043\_000083.tif scanned at: 18:54:32 on 12/01/20.

Scanned on: ICC Tabulator: 801 Batch: 43 00801\_00043\_000083.tif

Donald J. Trump (i) (Rep) US Senate (Perdue) David A. Perdue (I) (Rep) US Senate (Loeffler) - Special Doug Collins (Rep)
Public Service Commission District 1 Jason Shaw (I) (Rep) Public Service Commission District 4 Lauren Bubba McDonald, Jr. (I) (Rep) US House District 6 Karen Handel (Rep) State Senate District 56 John Albers (I) (Rep) State House District 48 Betty Price (Rep) District Attorney - Atlanta Fani Willis (Dem) Clerk of Superior Court Cathelene "Tina" Robinson (I) (Dem) Sheriff Patrick "Pat" Labat (Dem) Tax Commissioner Arthur E. Ferdinand (I) (Dem) Surveyor BLANK CONTEST Solicitor General Keith E. Gammage (I) (Dem) County Commission District 2 Bob Ellis (I) (Rep) Soil and Water - Fulton County Alan Teney (i) Constitutional Amendment #1

Constitutional Amendment #2

NO Statewide Referendum A

President of the United States

President of the United States Donald J. Trump (I) (Rep) US Senate (Perdue) David A. Pordue (I) (Rep) US Senate (Loeffler) - Special Doug Collins (Rep)
Public Service Commission District 1 Jason Shaw (I) (Rep) Public Service Commission District 4 Lauren Bubba McDonald, Jr. (I) (Rep) US House District 6 Karen Handel (Rep) State Senate District 56 John Albers (I) (Rep) State House District 48 Betty Price (Rep) District Attorney - Atlanta Fani Willis (Dem) Clerk of Superior Court Cathelene "Tina" Robinson (I) (Dem) Sheriff Patrick "Pat" Labat (Dem) Tax Commissioner Arthur E. Ferdinand (I) (Dem) Surveyor BLANK CONTEST Solicitor General Keith E. Gammage (I) (Dem) County Commission District 2 Bob Ellis (I) (Rep) Soil and Water - Fulton County Alan Toney (I) Constitutional Amendment #1 Constitutional Amendment #2

NO

YES

Statewide Referendum A

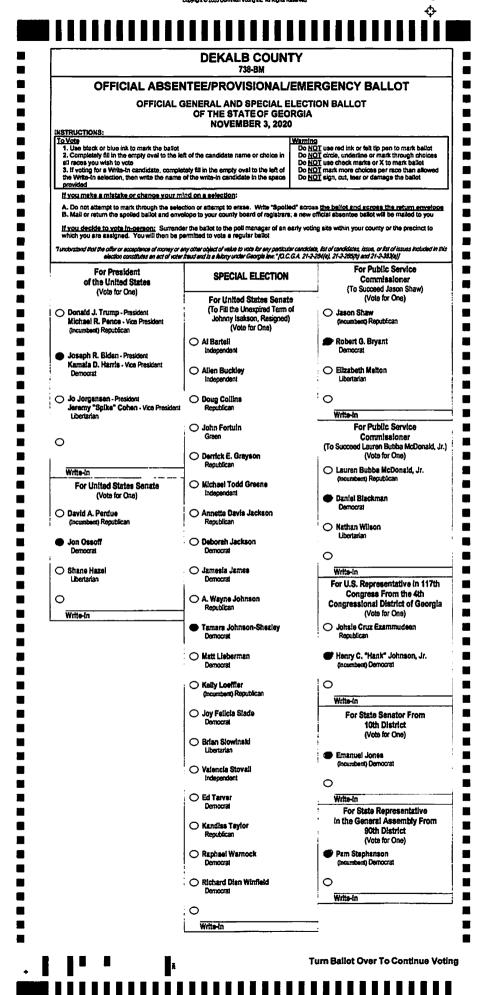
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Scanned on: ICC Tabulator: 801 Batch: 44

Poll ID: 317 Ballot ID: 676

# Exhibit C



## Case 1:17-cv-02989-AT Document 1297-4 Filed 02/01/22 Page 41 of 69

00729\_00116\_000047.tif scanned at: 20:28:58 on 11/06/20.

Scanned on: ICC Tabulator: 729 Batch: 116

Poll ID: 261 Ballot ID: 284

**President of the United States** 

Joseph R. Biden (Dem)

US Senate (Perdue)

Jon Ossoff (Dem)

US Senate (Loeffler) - Special

Tamara Johnson-Shealey (Dem)

**Public Service Commission District 1** 

Robert G. Bryant (Dem)

**Public Service Commission District 4** 

Daniel Blackman (Dem)

**US House District 5** 

Nikema Williams (Dem)

State Senate District 36

Nan Orrock (I) (Dem)

State House District 60

Kim Schofield (I) (Dem)

District Attorney - Atlanta

Fani Willis (Dem)

Clerk of Superior Court

**BLANK CONTEST** 

Sheriff

BLANK CONTEST

Tax Commissioner

**BLANK CONTEST** 

Surveyor

**BLANK CONTEST** 

Solicitor General

BLANK CONTEST

Soil and Water - Fulton County

**BLANK CONTEST** 

Constitutional Amendment #1

**BLANK CONTEST** 

**Constitutional Amendment #2** 

YES

Statewide Referendum A

**BLANK CONTEST** 

**Atlanta Homestead Exemption - Special** 

**OVER-VOTE** 

YES (NOT COUNTED)

NO (NOT COUNTED)

Adjudicated at 2:15 AM on 11/7/2020 by emsadmin04

President of the United States

Joseph R. Biden (Dem) (100%)

US Senate (Perdue)

Jon Ossoff (Dem) (100%)

US Senate (Loeffler) - Special

Tamara Johnson-Shealey (Dem) (100%)
Public Service Commission District 1

Robert G. Bryant (Dem) (100%)

Public Service Commission District 4

Daniel Blackman (Dem) (100%)

US House District 5

Nikema Williams (Dem) (100%)

State Senate District 36

Nan Orrock (I) (Dem) (94%) State House District 60

Kim Schofield (I) (Dem) (99%) District Attorney - Atlanta

Fani Willis (Dem) (100%) Clerk of Superior Court

BLANK CONTEST

Sheriff

BLANK CONTEST Tax Commissioner

BLANK CONTEST

Surveyor

BLANK CONTEST

Solicitor General

BLANK CONTEST

Soil and Water - Fulton County BLANK CONTEST

Constitutional Amendment #1

BLANK CONTEST Constitutional Amendment #2

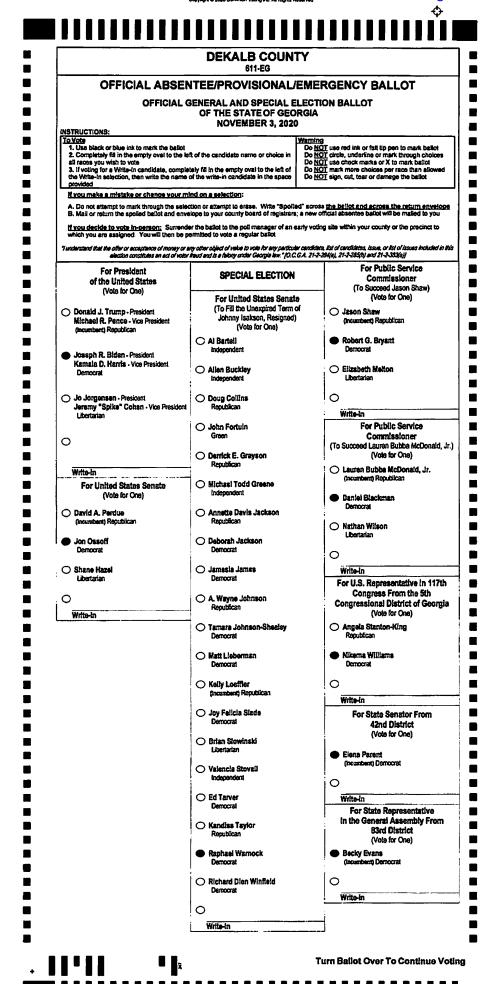
YES (31%)

Statewide Referendum A

BLANK CONTEST Atlanta Homestead Exemption - Special

\*Adjudicated\* Mark removed for YES

NO (988)



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Scanned on: ICC Tabulator: 729 Batch: 118

Poll ID: 168 Ballot ID: 247

President of the United States

Joseph R. Biden (Dem)

US Senate (Perdue)

Jon Ossoff (Dem)

US Senate (Loeffler) - Special

Raphael Warnock (Dem)

**Public Service Commission District 1** 

Robert G. Bryant (Dem)

**Public Service Commission District 4** 

Daniel Blackman (Dem)

**US House District 5** 

Nikema Williams (Dem)

**State Senate District 36** 

Nan Orrock (I) (Dem)

**State House District 58** 

Park Cannon (I) (Dem)

**District Attorney - Atlanta** 

Fani Willis (Dem)

**Clerk of Superior Court** 

**BLANK CONTEST** 

Sheriff

**BLANK CONTEST** 

Tax Commissioner

**BLANK CONTEST** 

Surveyor

**BLANK CONTEST** 

**Solicitor General** 

**BLANK CONTEST** 

**County Commission District 4** 

Write-in

Soil and Water - Fulton County

Write-in

**Constitutional Amendment #1** 

YES

**Constitutional Amendment #2** 

YES

Statewide Referendum A

NO

**Atlanta Homestead Exemption - Special** 

**BLANK CONTEST** 

#### **DEKALB COUNTY** 600-AA OFFICIAL ABSENTEE/PROVISIONAL/EMERGENCY BALLOT OFFICIAL GENERAL AND SPECIAL ELECTION BALLOT OF THE STATE OF GEORGIA NOVEMBER 3, 2020 INSTRUCTIONS: INSTRUCTIONS: 1. Use black or blue link to mark the ballot 2. Completely fill in the empty oval to the left of the candidate name or choice in all races you wish to vote 3. If voting for a Write-in candidate, completely fill in the empty oval to the left of the Write-in selection, then write the name of the write-in candidate in the space omultant. Warning Do NOT use red ink or fait tip pen to mark ballot Do NOT drde, underfine or mark through choice Do NOT use check marks or X to mark ballot Do NOT mark more choices per race than allowed Do NOT air, more choices per race than allowed Do NOT sign, cut, lear or damage the ballot If you make a mistake or change your mind on a selection: A. Do not attempt to mark through the selection or attempt to erase. Write "Spolled" across the ballot and across the return envelope B. Mail or return the spoiled ballot and envelope to your county board of registrars; a new official absence ballot will be mailed to you (I you decide to vote in-person: Surrender the ballot to the poll manager of an early voting site within your county or the precinct to which you are assigned. You will then be permitted to vote a regular ballot "Tundentand that the other or ecceptance of money or any other object of value to vote for any paticular candidate, list of candidates, issue, or list of its efactory under Georgie few." (D.C.G.A. 21-2-284(e), 21-2-285(h) and 21-2-383(e)) For Public Service For President SPECIAL ELECTION Commissioner of the United States (To Succeed Jason Shaw) (Vote for One) (Vote for One) For United States Senate (To Fill the Unexpired Term of Onald J. Trump - President O Jason Shaw Johnny Isakson, Resigned) Michael R. Pence - Vice President (Incumbent) Republican (Vote for One) (incumbent) Republican Robert G. Bryant Democrat O Al Bartell Joseph R. Biden - President Kamala D. Harris - Vice President C Elizabeth Melton Alien Buckley Independent O Jo Jorgansen - President O Doug Collins 0 Jeremy "Spike" Cohen - Vice President Libertarian Write-In O John Fortuin For Public Service Commissioner 0 (To Succeed Lauren Bubba McDonald, Jr.) O Derrick E. Grayson (Vote for One) Republican Lauren Bubba McDonald, Jr. (Incumbent) Republican Write-In Michael Todd Greene For United States Senate Independent (Vote for One) Daniel Blackman O David A. Perdue O Annette Davis Jackson Republican Nathan Wilson Jon Ossoff Daborah Jackson Democrat 0 Jamesia James Shane Hazel Write-in Libertarian Democrat For U.S. Representative in 117th Congress From the 4th A. Wayne Johnson 10 Congressional District of Georgia (Vote for One) O Johsie Cruz Ezammudeen Tamara Johnson-Shealey Republican Henry C. "Hank" Johnson, Jr. Matt Lieberman Democra Kelly Loeffler 0 (Incumbent) Republican Write-in O Joy Felicia Slade For State Senator From 41st District (Vote for One) O Brian Slowinski Libertarian William Park Freeman Republican O Valencia Stovail independent Kim Jackson Democrat C Ed Tarver 0 ○ Kandisa Taylor Write-In For State Representative In the General Assembly From Raphael Warnock Democrat 86th District (Vote for One) Richard Dien Winfield Zulma Lopez Democrat 0 0 Write-in Write-In

**Turn Bailot Over To Continue Voting** 

Authorizes dedication of fees and

**STHENDMENTS** 

CONSTITUTIONAL

PROPOSED

0

Sherry Boston (Incumbent) Democral

(enO not etoV)

Stone Mountain Judicial Circuit For District Atterney of the

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Scanned on: ICC Tabulator: 5150 Batch: 134
      Poll ID: 314 Ballot ID: 1
      President of the United States
       Joseph R. Biden (Dem)
      US Senate (Perdue)
       Jon Ossoff (Dem)
      US Senate (Loeffler) - Special
        Deborah Jackson (Dem)
      Public Service Commission District 1
        Robert G. Bryant (Dem)
      Public Service Commission District 4
       Daniel Blackman (Dem)
      US House District 5
        Nikema Williams (Dem)
      State Senate District 36
        Write-in
      State House District 59
        Write-in
      District Attorney - Atlanta
        Fani Willis (Dem)
      Clerk of Superior Court
        BLANK CONTEST
      Sheriff
        BLANK CONTEST
      Tax Commissioner
        BLANK CONTEST
      Surveyor
        BLANK CONTEST
      Solicitor General
        BLANK CONTEST
      Soil and Water - Fulton County
        BLANK CONTEST
      Constitutional Amendment #1
        BLANK CONTEST
      Constitutional Amendment #2
        OVER-VOTE
        YES (NOT COUNTED)
        NO (NOT COUNTED)
      Statewide Referendum A
        BLANK CONTEST
      Atlanta Homestead Exemption - Special
        OVER-VOTE
        YES (NOT COUNTED)
        NO (NOT COUNTED)
Adjudicated at 3:19 PM on 11/3/2020 by emsadmin06
President of the United States
Joseph R. Biden (Dem) (100%)
US Senate (Perdue)
Jon Ossoff (Dem) (100%)
US Senate (Loeffler) - Special
    Deborah Jackson (Dem) (100%)
Public Service Commission District 1
Robert G. Bryant (Dem) (1000)
Public Service Commission District 4
Daniel Blackman (Dem) (1000)
US House District 5
    Nikema Williams (Dem) (100%)
State Senate District 36
Write-in (100%)
State House District 59
    Write-in (100%)
District Attorney - Atlanta
    Fani Willis (Dem) (100%)
Clerk of Superior Court
BLANK CONTEST
Sheriff
    BLANK CONTEST
Tax Commissioner
   BLANK CONTEST
Surveyor
    BLANK CONTEST
Solicitor General
BLANK CONTEST
Soil and Water - Fulton County
BLANK CONTEST
Constitutional Amendment #1
    BLANK CONTEST
Constitutional Amendment #2
    *Adjudicated* Mark removed for YES
NO (99%)
Statewide Referendum A
BLANK CONTEST
Atlanta Homestead Exemption - Special
```

\*Adjudicated\* Mark removed for YES

NO (1008)

Turn Ballot Over To Continue Voting राजान मिंगूरी Mritte-lin ורם אים בי שימנים ביור uan busc O Richard Dien Winfield (9nO not atoV) 83rd District Rephael Warnock in the General Assembly From For State Representative republican ni-ethW TolysT asibna) O Gail Davingort DEd Tarver response (personal Gall Davenport O Valencia Stovali Benjamin Brooks Libertarian Maniwold name (snO tot etoV) 12UISIA MPP For State Senator From O 10y Felicia Slada O Williams peur) responsesu C Kelly Loeffler 12JOOUJ8(1 O Mett Lieberman emstille smakin ugacandas enlik-notmat2 stegnA 🔘 Velaserie Johnson-Shealey (Vote for One) fresso Congress From the 5th Congressional District of Georgia 8 noandoLenysW.A. For U.S. Representative in 117th namilable (5.00) Democrat UBUSTION samet sisamst 🔘 tessH enade 1812001197 O Deborah Jackson NossO not nensnadi mostilly nartish ( uennandes O Annette Davis Jackson O David A. Perdue namicald lainati (9nO not edoV) For United States Senate ensene bboT learnsi M 🔾 ni-eshiW O Lauren Bubbe McDonald, Jr. menorates. Derrick E. Grayson (9nO tot etoV) (To Succeed Lauren Bubbs McDonald, Jr.) 0 Commissioner muthor anot O For Public Service (IPUP) IDOT Tropict 6 Bryant Jeremy "Spike" Cohen - Vice Pre mabison4 - neanegnot of EUIIIOS GOOR C 1RLDQUISIT O Vijeu gnekley notieth Medazilia Kemala D. Harris - Vice President Uoseph R. Biden - President Robert G. Bryant lletus BIA 🔾 discussional Republican (VOTB FOR CINE) psychology (psychologican Michael R. Pence - Voe President to me i bengven U en in o i) Johnny isakson, Resigned) WARR nosst 🔾 Insbissing - qritari L bisnoti For United States Senate (west2 nosst becood oT) (enO tol etoV) eatst& batinU ant to (anO tot etoV) Commissioner SPECIAL ELECTION for President For Public Service e epoçou construis eu est quoun parq en pepara que le propie (enclhe eur. (C.C.C.V. S1-5-sqlef) sus S1-5-sglef) sant parque condision en est quoun ou euh agna quest quespe pu agn pue euh beporte cençales est queste au sta quant which you are assigned. You will then be perfect to you so leguist belief A. De not eitempt for mark through are actionfor on entempt to encace. With Delica's ence in the part state of the part are negative and maked to you be maked to you make it is the company of registrates; a new controls because the stocked between the stocked between the stocked part of the pa i vou make a miejske or change vour mind on a selection: \*1. Use black or bise ink to mark the ballot

2. Completely III in the empty oval to the left of the candidate name or choice in

21. If voting for a White-in candidate, completely fill in the empty oval to the left of

21. If voting for a White-in candidate, completely fill in the entry oval to the left of

21. White-in candidate in the name of the write-in candidate in the space

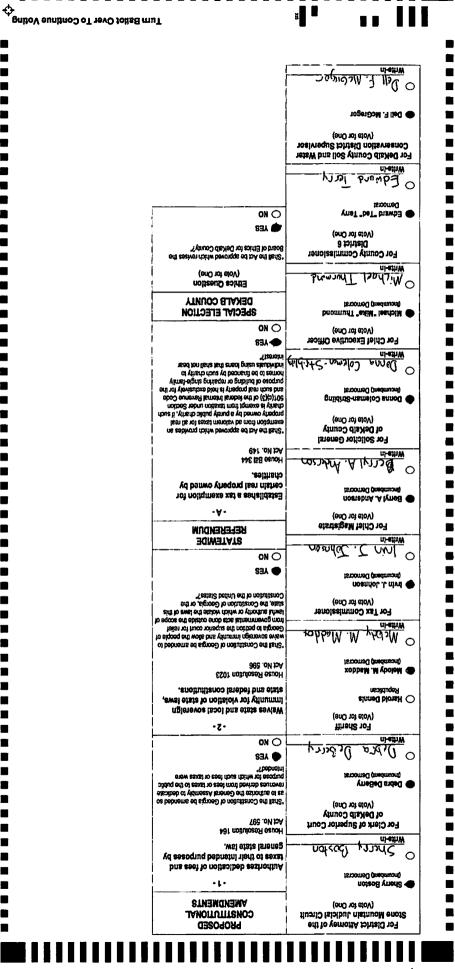
21. Voting for a White-in candidate. NOVEMBER 3, 2020 OF THE STATE OF GEORGIA OFFICIAL GENERAL AND SPECIAL ELECTION BALLOT

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OFFICIAL ABSENTEE/PROVISIONAL/EMERGENCY BALLOT

OFFICIAL ABSENTEE/PROVISIONAL/EMERGENCY BALLOT

OFFICIAL ABSENTEE/PROVISIONAL/EMERGENCY BALLOT



05160\_00441\_000001.tif scanned at: 18:30:31 on 11/04/20.

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Scanned on: ICC Tabulator: 5160 Batch: 441
      Poll ID: 90 Ballot ID: 335
      President of the United States
       Joseph R. Biden (Dem)
      US Senate (Perdue)
       Jon Ossoff (Dem)
      US Senate (Loeffler) - Special
        Raphael Warnock (Dem)
      Public Service Commission District 1
        Robert G. Bryant (Dem)
      Public Service Commission District 4
        Daniel Blackman (Dem)
      US House District 5
        Nikema Williams (Dem)
      State House District 56
        Write-in
      District Attorney - Atlanta
        Write-in
      Clerk of Superior Court
        BLANK CONTEST
      Sheriff
        Write-in
      Tax Commissioner
        BLANK CONTEST
      Surveyor
       BLANK CONTEST
      Solicitor General
        BLANK CONTEST
      County Commission District 4
        BLANK CONTEST
      Soil and Water - Fulton County
        Write-in
      Constitutional Amendment #1
       YES
      Constitutional Amendment #2
       OVER-VOTE
        YES (NOT COUNTED)
       NO (NOT COUNTED)
      Statewide Referendum A
        BLANK CONTEST
      Atlanta Homestead Exemption - Special
       OVER-VOTE
        YES (NOT COUNTED)
       NO (NOT COUNTED)
Adjudicated at 8:55 PM on 11/4/2020 by emsadmin02
President of the United States
Joseph R. Biden (Dem) (100%)
US Senate (Perdue)
   Jon Ossoff (Dem) (99%)
US Senate (Loeffler)
                         - Special
Raphael Warnock (Dem) (100%)
Public Service Commission District 1
Robert G. Bryant (Dem) (100%)
Public Service Commission District 4
   Daniel Blackman (Dem) (99%)
US House District 5
Nikema Williams (Dem) (950)
State House District 56
Write-in (98%)
District Attorney - Atlanta
Write-in (100%)
Clerk of Superior Court
BLANK CONTEST
Sheriff
   Write-in (998)
Tax Commissione
   BLANK CONTEST
Surveyor
BLANK CONTEST
Solicitor General
BLANK CONTEST
County Commission District 4
BLANK CONTEST
Soil and Water - Fulton County
Write-in (100%)
Constitutional Amendment #1
YES (100%)
Constitutional Amendment #2
   OVER-VOTE
YES (NOT COUNTED) (33%)
NO (NOT COUNTED) (100%)
Statewide Referendum A
BLANK CONTEST
Atlanta Homestead Exemption - Special
```

OVER-VOTE

YES (NOT COUNTED) (48%) NO (NOT COUNTED) (100%) Copyright © 2020 Dominion Voting Inc. All Rights Reserved

#### **DEKALB COUNTY** 641-DC, 658-DC OFFICIAL ABSENTEE/PROVISIONAL/EMERGENCY BALLOT OFFICIAL GENERAL AND SPECIAL ELECTION BALLOT OF THE STATE OF GEORGIA **NOVEMBER 3, 2020** INSTRUCTIONS: (I. Use black or blue ink to mark the ballot 2. Completely fill in the empty oval to the left of the candidate name or choice in all races you wish to vote 3. If voting for a Winta-in candidate, completely fill in the empty oval to the left of the Winta-in selection, then write the name of the write-in candidate in the space convolved. WATTING Do NOT use red ink or felt tip pen to merk batlot Do NOT use check maerine or mark through choices Do NOT use check marks or X to mark batlot Do NOT merk more choices per race than allowed Do NOT sign, cut, tear or damage the ballot If you make a mistake or change your mind on a selection: A. Do not attempt to mark through the selection or attempt to erase. Write "Spotled" scross the belief and across the return envelope B. Mail or return the spoked ballot and envelope to your county board of registrars; a new official absentee ballot will be mailed to you If you decide to vote in-person; Surrender the ballot to the poll manager of an early voting site within your county or the precinct to which you are assigned. You will then be permitted to vote a regular ballot 7 understand that the offer or ecomptance of money or any other object of value to vote for any particular conditates, list of candidates, issue, or list of issues included in this election constitutes an act of voter faunt and is a februy under Georgie inn. \*(D.C.G.A. 21-3-264(e), 21-3-265(e) and 21-3-353(e)) For Public Service For President SPECIAL ELECTION of the United States Commissioner (To Succeed Jason Shaw) (Vote for One) (Vote for One) For United States Senate O Bonald J. Trump - President Michael R. Pence - Vice President (neumbert) Republican (To Fill the Unexpired Term of Jason Shaw Johnny Isakson, Resigned) (incumbent) Republican (Vote for One) Al Bartell Robert G. Bryant Joseph R. Bilden - President Kamala D. Harris - Vice President Allen Buckley C Elizabeth Melton I ihertarian O Jo Jorgensen - President O Doug Collins Republican 0 Jeremy "Spike" Cohen - Vice President Write-in For Public Service O John Fortuin Commissioner 0 (To Succeed Lauren Bubba McDonald, Jr.) O Derrick E. Grayson (Vote for One) Lauren Bubba McDonald, Jr. Write-In (Incumbent) Republican Michael Todd Greens For United States Senate (Vote for One) Daniel Blackman O David A. Perdue O Annette Davis Jackson öncumbent) Republican Republican O Nathan Wilson Libertarian Jon Ossoff O Deborah Jackson O O Shane Hazel Jamesia James Write-In For U.S. Representative in 117th Congress From the 6th 0 A. Wayne Johnson Congressional District of Georgia (Vote for One) O Tamara Johnson-Shealey Karen Handel Lucy McBath Matt Lieberman sheet) Democrat ○ Kelly Loeffler $\circ$ mbeet Recubican O Joy Felicia Slade Democrat For State Senator From **42nd District** (Vote for One) O Brian Slowinski Libertarian Elena Parent neumberti Democrat ○ Valencia Stovall $\circ$ O Ed Tarver Write-In For State Representative In the General Assembly From Kandles Taylor 92cd District Republican (Vote for One) Raphael Warnock Mary Margaret Oilver O Richard Dien Winfield 0 Write-In 0 Write-In

Turn Ballot Over To Continue Voting

Ballot Ounitno OoT sevO foliaß muT

M-esthW O Dell F. McGregor (enO tol etoV) For Delicalb County Soil and Water Conservation District Supervisor ni-eshW 0 ON ( ViseT "beT" baswb3 🔘 SEA 🔷 (Vote for One) District 6 "Shall the Act be approved which revises the Board of Ethics for Delkalb County?" For County Commissioner nl-exhW (Vote for One) Ethics Question 0 DEKALB COUNTY special) Democrast SPECIAL ELECTION bnomunff "exilit" lassfoliti 🔾 ON O For Chief Executive Officer (Vote for One) ○ KES ni-esthW thesity at example from the control modern to the cool of the co 0 eca) Democrat Donna Coleman-Stribling and the Act be soprowed which provides an exal less?" Such the loss is not notique as the first in the count of the chart is the chart in the chart is the chart of DeKelb County (Vote for One) For Solicitor General 641 ON DA ni-eshW MAE IIIB ezuoH 0 certain real property owned by (поситреня) реглосия Tetablishes a tax exemption for C Berryl A. Anderson For Chief Magistrate (and not over the form) REFERENDUM nl-ethW STATEWIDE ON O 0 O AES peut) Deutocas nosnifol "L nivi) 🌑 ot behasine sed segroes for notatation of End2" was behasing to expend the people of waits of sed sour the segroes of segroes of segroes of segroes of segroes of segroes of the sed of the segroes of th (SnO to) eloV) For Tax Commissioner nl-esh W 0 (incumbent) Democral House Resolution 1023 Act No. 596 melody M. Maddox state and federal constitutions. elaned blonsH 🔾 awai etate to noisilor to state laws, Welves state and local sovereign (enO not atoV) For Sherfff ni-eth/W OH O 0 smomed (me Pebra DeBerry For Clark of Superior Court of Delkalb County (Yota for One) House Resolution 164 Act No. 597 wal ciate lareneg taxes to their intended purposes by 0 Authorizes dedication of fees and ud Democrat Cherry Boston **STNEMDMENTS** Stores Mountain Judicial Circuit (You or One) CONSTITUTIONAL For District Attorney of the **G3SOYORY** 

8

8

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Scanned on: ICC Tabulator: 5160 Batch: 441

Poll ID: 559 Ballot ID: 358

**President of the United States** 

Joseph R. Biden (Dem)

**US Senate (Perdue)** 

Jon Ossoff (Dem)

US Senate (Loeffler) - Special

Raphael Warnock (Dem)

**Public Service Commission District 1** 

Robert G. Bryant (Dem)

**Public Service Commission District 4** 

Daniel Blackman (Dem)

**US House District 5** 

Nikema Williams (Dem)

State Senate District 39 - Special Democratic Primary

**BLANK CONTEST** 

State House District 56

Mesha Mainor (Dem)

District Attorney - Atlanta

Fani Willis (Dem)

**Clerk of Superior Court** 

Write-in

Sheriff

Write-in

**Tax Commissioner** 

**BLANK CONTEST** 

Surveyor

**BLANK CONTEST** 

Solicitor General

**BLANK CONTEST** 

Soil and Water - Fulton County

**BLANK CONTEST** 

Constitutional Amendment #1

YES

**Constitutional Amendment #2** 

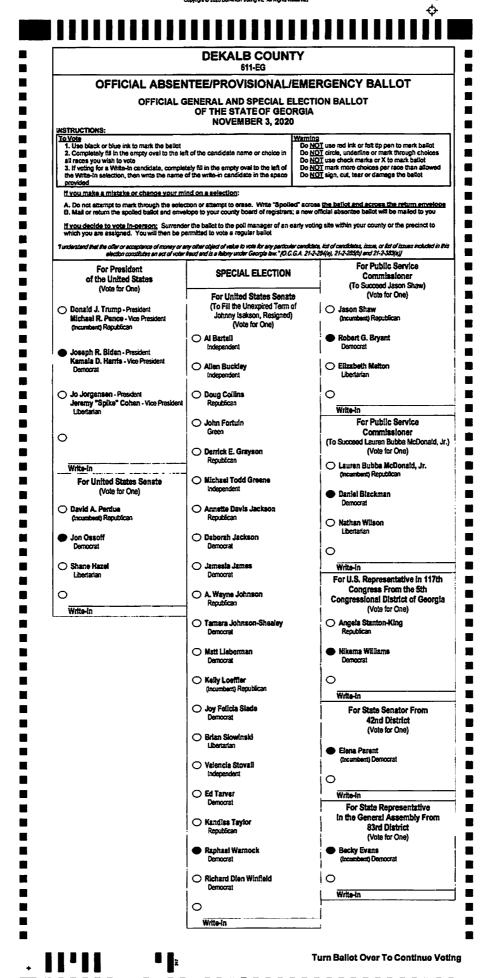
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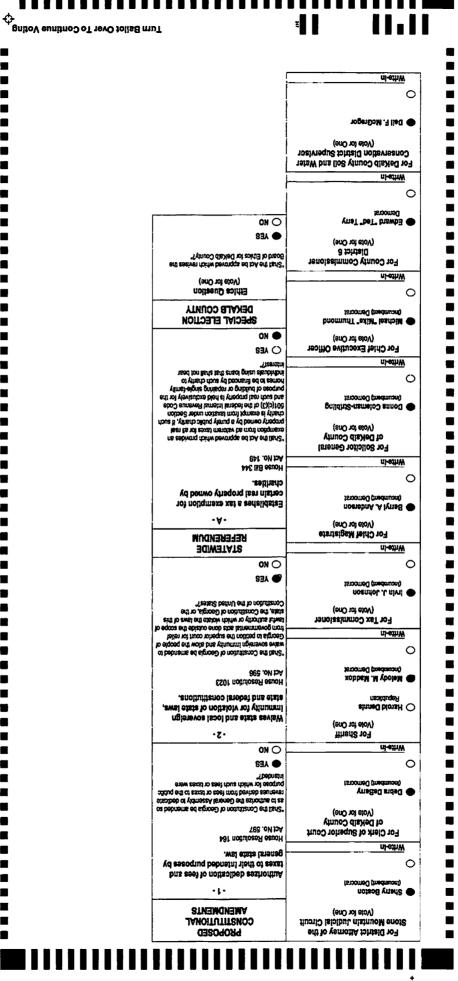
Statewide Referendum A

**BLANK CONTEST** 

**Atlanta Homestead Exemption - Special** 

**BLANK CONTEST** 





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Scanned on: ICC Tabulator: 742 Batch: 54

Poll ID: 168 Ballot ID: 247

**President of the United States** 

Joseph R. Biden (Dem)

US Senate (Perdue)

Jon Ossoff (Dem)

US Senate (Loeffler) - Special

Raphael Warnock (Dem)

**Public Service Commission District 1** 

Robert G. Bryant (Dem)

**Public Service Commission District 4** 

Daniel Blackman (Dem)

**US House District 5** 

Nikema Williams (Dem)

State Senate District 36

Nan Orrock (I) (Dem)

State House District 58

Park Cannon (I) (Dem)

District Attorney - Atlanta

Fani Willis (Dem)

**Clerk of Superior Court** 

**BLANK CONTEST** 

Sheriff

**BLANK CONTEST** 

**Tax Commissioner** 

**BLANK CONTEST** 

Surveyor

**BLANK CONTEST** 

**Solicitor General** 

**BLANK CONTEST** 

**County Commission District 4** 

Write-in

Soil and Water - Fulton County

Write-in

Constitutional Amendment #1

YES

**Constitutional Amendment #2** 

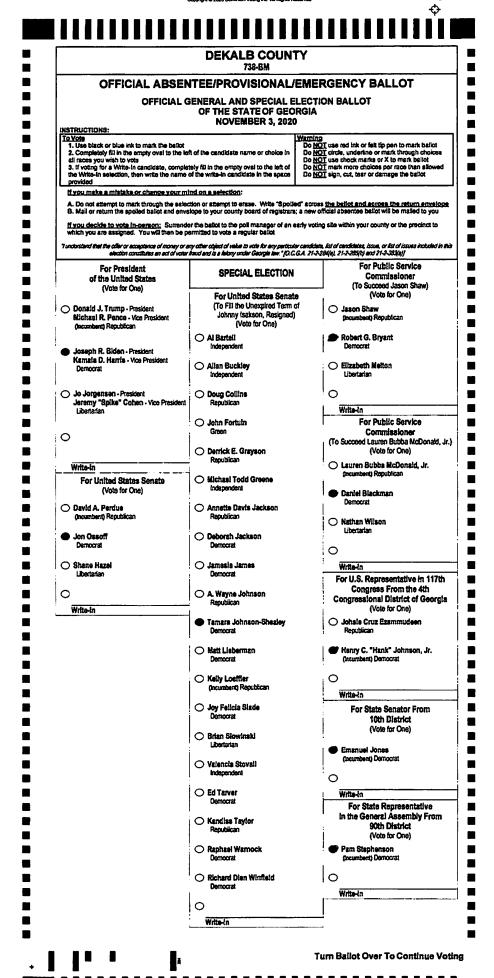
YES

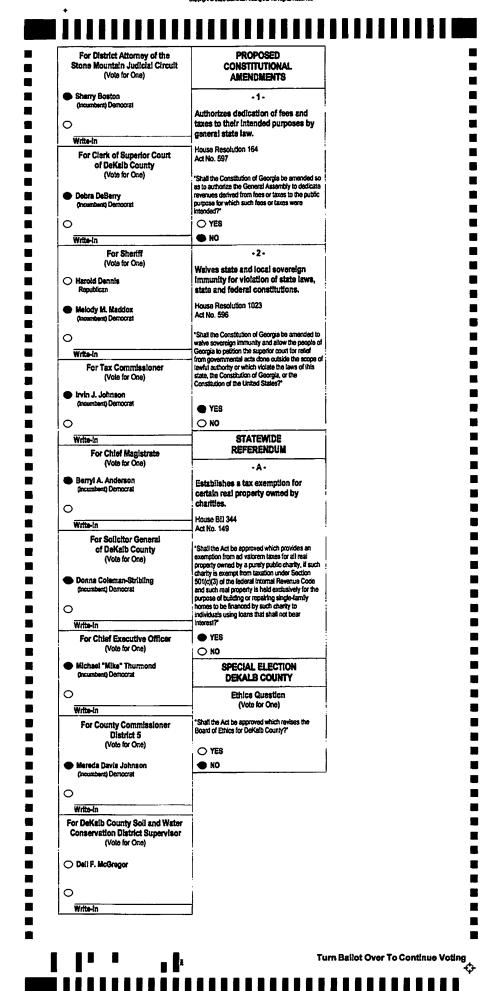
Statewide Referendum A

NC

Atlanta Homestead Exemption - Special

**BLANK CONTEST** 





00742\_00060\_000040.tif scanned at: 11:01:38 on 12/01/20.

Scanned on: ICC Tabulator: 742 Batch: 60

Poll ID: 261 Ballot ID: 284

**President of the United States** 

Joseph R. Biden (Dem)

US Senate (Perdue)

Jon Ossoff (Dem)

US Senate (Loeffler) - Special

Tamara Johnson-Shealey (Dem)

**Public Service Commission District 1** 

Robert G. Bryant (Dem)

**Public Service Commission District 4** 

Daniel Blackman (Dem)

**US House District 5** 

Nikema Williams (Dem)

State Senate District 36

Nan Orrock (I) (Dem)

State House District 60

Kim Schofield (I) (Dem)

**District Attorney - Atlanta** 

Fani Willis (Dem)

**Clerk of Superior Court** 

**BLANK CONTEST** 

Sheriff

**BLANK CONTEST** 

**Tax Commissioner** 

**BLANK CONTEST** 

Surveyor

**BLANK CONTEST** 

Solicitor General

**BLANK CONTEST** 

Soil and Water - Fulton County

**BLANK CONTEST** 

Constitutional Amendment #1

**BLANK CONTEST** 

**Constitutional Amendment #2** 

YES

Statewide Referendum A

**BLANK CONTEST** 

**Atlanta Homestead Exemption - Special** 

**OVER-VOTE** 

YES (NOT COUNTED)

NO (NOT COUNTED)

Turn Bailot Over To Continue Voting

SCOVE EVENT Raphael Warnerly (ucumpent) Democrat O Richard Dien Winfield (9nO tot etoV) Democras tohtal@bs88 Raphael Warnock For State Representative in the General Israel repronder O Kandles Taylor Davingort O 60:1 TRECOURAGE D Ed Tarver Gell Davenport (moumbert) Democrat Valencia Stovali Senjamin Brooks

Republican URLENGO blan Stowinsti (Vote for One) 44th District 1E COULDO For State Senator From O Joy Felicia Stade neoddugent) Hepublican Milceme Williams ○ Keliy Loeffier 19,000,000 Pronor nammedald traff ( SMELLITY SMEATH TO 192001190 gnDi-nomat8 slegnA ○ Veliseri & nosmitot sisma! (Vote for One) J. 18550 Congressional District of Georgia PARTITION OF THE PARTIES OF THE PART Congress From the 5th For U.S. Representative in 117th Och 1) Car 2) B Och Con on With the International Control of the Internati Democrat lexall enasts ( O Deposeh Jackson TIOSEU GOL . DEMENSOR noellW nathan 🔾 ещ) усслодски O Annette Davis Jackson O David A. Perdue namicala leinad ens red states Senate For United States Senate Por United States Senate Por Ports Po ensene bboT lessfolM 🔾 מגן ינפטרטיוכצוו O Leuren Bubbs McDonsid, Jr. neonduga. (Vote for One) O Demick E. Grayson Commissioner
(To Succeed Lauren Bubba McDonald, Jr.) 0 For Public Service niutro7 nitol. trapid 2 tradol 0 Lo Jorgensen - President

Leterny "Splke" Cohen - Vice President usanday Sullog Good UZUZUOON C Elizabeth Mellon O Atlen Bucklay Kamala D. Hamla - Vice President Doseph R. Biden - President 12,000,00 Robert G. Bryant Dates IA O Onneld J. Trump - President
Milchael R. Pence - Voe President
(preumbert) Reproficen (enO to) etoV) To mai benkpand fem of) formy issison, Resigned) MEUS HOREL ( Commissioners (west Succeed Street) (Yote for One) For United States Senate (Vote for One) estate batinu ent to SPECIAL ELECTION mebiser9 104 For Public Service e processor par per que constitues en est of voire heurd ent es felony under Georgia har (C.C.C.A. 21-2-284/e), 21-2-284/e) and 21-2-383/e).

Turbossand bas he often de econômicos di mones or est de mone for ent for en períodes, care of carbosses, casa di fiss wycy λοπ sia szejüseς. <u>Αοπνική then be bezwirze</u> το λούο ε ιαδηγεί pego; <u>Η λοπ σεκίζα το λούο με δεκώνου</u>: *Ω*πώσυσοι της ρεφοία της το ευθώνει pego; A. Do not ettem to mark tilnager ette secora "belloge" ettiv. .essa et tyme til en etteret ette region in par et B. Mail or retur etteret sellet etteret etteret etteret etteret etteret etteret etteret etteret etteret ettere Lyou make a mistake or charge your mind on a selection: DO NGTI use red ink or felt tip pen to mark ballox bo NGTI use red ink or felt tip pen to mark ballox Do NGTI use chock narks or for nark ballox Do NGTI mark more choices per race than sllowed Do NGTI mark more choices per race than sllowed Do NGTI mark more choices per race that pasked TOVOIS:

To Very Mark to mark the basion

To Very Mark to mark the basion

To Completely fill in the empty even to the left of the candidate name or choice in
all reces you wish to voe

To Virginia the white-in candidate, completely fill in the empty even to the left of

The Virginia in a left of the white-in candidate in the space

The Virginia in a left of the white-in candidate in the space

The Virginia in a left of the white-in candidate in the space

To Wirdinia in the space of the white-in candidate in the space of the space NOVEMBER 3, 2020 OF THE STATE OF GEORGIA OFFICIAL GENERAL AND SPECIAL ELECTION BALLOT

OFFICIAL ABSENTEE/PROVISIONAL/EMERGENCY BALLOT DEKALB COUNTY

**STHEMDMENTS** 

PROPOSED CONSTITUTIONAL

Stone Mountain Judicial Circuit (Vote for One)

For District Attorney of the

05150\_00080\_000082.tif scanned at: 16:37:38 on 11/30/20.

Scanned on: ICC Tabulator: 5150 Batch: 80

Poll ID: 90 Ballot ID: 335

**President of the United States** 

Joseph R. Biden (Dem)

US Senate (Perdue)

Jon Ossoff (Dem)

US Senate (Loeffler) - Special

Raphael Warnock (Dem)

**Public Service Commission District 1** 

Robert G. Bryant (Dem)

**Public Service Commission District 4** 

Daniel Blackman (Dem)

**US House District 5** 

Nikema Williams (Dem)

State House District 56

Write-in

**District Attorney - Atlanta** 

Write-in

**Clerk of Superior Court** 

**BLANK CONTEST** 

Sheriff

Write-in

**Tax Commissioner** 

**BLANK CONTEST** 

Surveyor

**BLANK CONTEST** 

Solicitor General

**BLANK CONTEST** 

**County Commission District 4** 

**BLANK CONTEST** 

Soil and Water - Fulton County

Write-in

Constitutional Amendment #1

YES

**Constitutional Amendment #2** 

**OVER-VOTE** 

YES (NOT COUNTED)

NO (NOT COUNTED)

Statewide Referendum A

**BLANK CONTEST** 

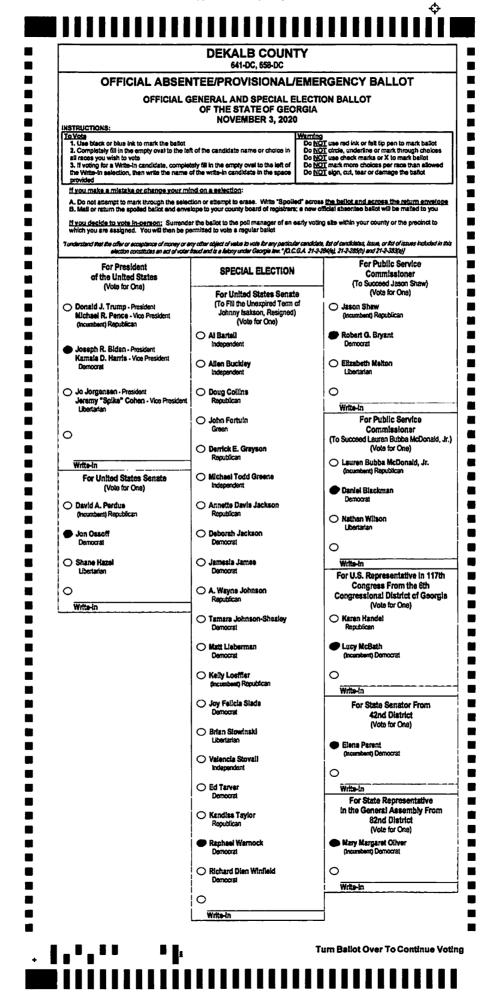
**Atlanta Homestead Exemption - Special** 

**OVER-VOTE** 

YES (NOT COUNTED)

**NO (NOT COUNTED)** 

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Authorizes dedication of fees and by sexet by the sexet b

**STNENDMENTS** 

CONSTITUTIONAL PROPOSED

House Resolution 164

general state law.

nl-eshW

Sherry Boston
(noumbert) Denocrei

Stone Mountain Judicial Circuit (Vote for One)

For District Attorney of the

05150\_00080\_000089.tif scanned at: 16:37:43 on 11/30/20.

Scanned on: ICC Tabulator: 5150 Batch: 80

Poll ID: 559 Ballot ID: 358

**President of the United States** 

Joseph R. Biden (Dem)

US Senate (Perdue)

Jon Ossoff (Dem)

US Senate (Loeffler) - Special

Raphael Warnock (Dem)

**Public Service Commission District 1** 

Robert G. Bryant (Dem)

**Public Service Commission District 4** 

Daniel Blackman (Dem)

**US House District 5** 

Nikema Williams (Dem)

State Senate District 39 - Special Democratic Primary

**BLANK CONTEST** 

State House District 56

Mesha Mainor (Dem)

**District Attorney - Atlanta** 

Fani Willis (Dem)

**Clerk of Superior Court** 

Write-in

Sheriff

Write-in

Tax Commissioner

**BLANK CONTEST** 

Surveyor

**BLANK CONTEST** 

**Solicitor General** 

**BLANK CONTEST** 

Soil and Water - Fulton County

**BLANK CONTEST** 

**Constitutional Amendment #1** 

YES

**Constitutional Amendment #2** 

**BLANK CONTEST** 

Statewide Referendum A

**BLANK CONTEST** 

**Atlanta Homestead Exemption - Special** 

**BLANK CONTEST** 

# Exhibit D

### **FULTON COUNTY**

779-RW01



Werning

Do NOT use red ink or felt tip pen to mark ballot

Do NOT circle, underline er mark through choices

Do NOT use check marks or X to mark ballot

Do NOT mark more choices per race than allowed

Do NOT sign, cut, tear or damage the ballot

### OFFICIAL ABSENTEE/PROVISIONAL/EMERGENCY BALLOT

OFFICIAL GENERAL AND SPECIAL ELECTION BALLOT OF THE STATE OF GEORGIA **NOVEMBER 3, 2020** 

- INSTRUCTIONS:

  To Vote

  1. Use black or blue ink to mark the back or blue ink to mark the back or blue ink to back or back or blue ink to back or back or blue ink to back or blue ink to back or blue ink to back or back or blue ink to back or 1. Use black or Date ink to mark the blade.
  2. Completely fill in the empty oval to the left of the candidate name or choice in all races you wish to vote.
  3. If voting for a Write-in candidate, completely fill in the empty eval to the left of the Write-in selection, then write the name of the write-in candidate in the space.

If you make a mistake or change your mind on a selection:

A. Do not attempt to mark through the selection or attempt to erase. Write "Spotled" across the ballot and across the return envelope B. Mail or return the specied ballot and envelope to your county board of registrers; a new official absentee ballot will be mailed to you

If you decide to vote in-person; Surrender the battet to the poll manager of an early voting site within your county or the precinct to which you are assigned. You will then be permitted to vote a regular bollot

### 7 understand that the offer or ecceptance of money or any other object of veloue to vote for any periodizer candidate, list of candidates, issue, or list of issues included in this election constitutes an act of voter fraud and is a follony under Georgia lim: \*{O.C.G.A. 21-2-284(a), 21-2-285(b) and 21-2-383(la)} For Public Service For President SPECIAL ELECTION Commissioner of the United States (To Succeed Jason Shaw) (Vote for One) (Vote for One) For United States Senate (To Fill the Unexpired Term of Johnny Isakson, Resigned) Donald J. Trump-President i Jason Shaw Michael R. Pence - Vice President (Incumbent) Republican (Vote for One) (locumbent) Republican C Al Bartell Robert G. Bryant Democrat Joseph R. Biden - President Kamala D. Harris - Vice President Allen Buckley Independent : Elizabeth Matton Libertarian Jo Jorgensen - President Jeremy "Spilke" Cohen - Vice President Libertarian Doug Collins Republican Write-in C) John Fortuin For Public Service Commissioner (To Succeed Lauren Bubba McDonald, Jr.) Derrick E. Grayson (Vote for One) Republican . Lauren Bubba McDonald, Jr. Write-in (Incumbent) Republican For United States Senate C Michael Todd Greene Independent (Vote for One) Daniel Blackman Democrat David A. Perdus Annette Davis Jackson Republican 🗩 Nathan Wilson Jon Ossofi Deborah Jackson Shane Hazel Jamesia James Write-in For U.S. Representative in 117th A. Wayne Johnson Congress From the 6th Congressional District of Georgia Republican (Vote for One) Write-in Karen Handel Republican Tamara Johnson-Shealey Democrat Matt Lieberman Lucy McBath (Incumbent) Democrat C Kelly Loeffler (Incumbent) Republican Write-in Joy Felicia Siade For State Senator From 56th District (Vote for One) : Brian Slowinski John Albers (Incumbent) Republican O Valencia Stovali Independent Sarah Besson Ed Tarver C Kendiss Taylor Write-in Republican Rephael Warnock Richard Dien Winfield $\circ$

Write-In

**Turn Ballot Over To Continue Voting** 

00729 00086 000095.tif scanned at: 02:35:53 on 11/05/20

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Scanned on: ICC Tabulator: 729 Batch: 86
Poll ID: 317 Ballot ID: 676
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**President of the United States** 

Joseph R. Biden (Dem)

US Senate (Perdue)

Jon Ossoff (Dem)

US Senate (Loeffler) - Special **OVER-VOTE** 

Deborah Jackson (Dem) (NOT COUNTED)

Jamesia James (Dem) (NOT COUNTED)

Tamara Johnson-Shealey (Dem) (NOT COUNTED)

Matt Lieberman (Dem) (NOT COUNTED) Joy Felicia Slade (Dem) (NOT COUNTED)

Ed Tarver (Dem) (NOT COUNTED)

Raphael Warnock (Dem) (NOT COUNTED)

Richard Dien Winfield (Dem) (NOT COUNTED)

**Public Service Commission District 1** 

Robert G. Bryant (Dem)

**Public Service Commission District 4** 

Daniel Blackman (Dem)

US House District 6

Lucy McBath (I) (Dem)

State Senate District 56

Sarah Beeson (Dem)

State House District 48 Mary Robichaux (I) (Dem)

District Attorney - Atlanta

Fani Willis (Dem)

Clerk of Superior Court

Cathelene "Tina" Robinson (I) (Dem)

Sheriff

Patrick "Pat" Labat (Dem)

Tax Commissioner

Arthur E. Ferdinand (I) (Dem)

Survevor

**BLANK CONTEST** 

Solicitor General

Keith E. Gammage (I) (Dem)

**County Commission District 2** 

Justin Holsomback (Dem)

Soil and Water - Fulton County

**BLANK CONTEST** 

Constitutional Amendment #1 **BLANK CONTEST** 

Constitutional Amendment #2

**BLANK CONTEST** 

Statewide Referendum A

**BLANK CONTEST** 

### Adjudicated at 5:10 AM on 11/5/2020 by emsadmin03

President of the United States

Joseph R. Biden (Dem) (100%) US Senate (Perdue) Jon Ossoff (Dem) (100%) US Senate (Loeffler) - Special OVER-VOTE

US Senate (Loeffler) - Special
OVER-VOTE
Deborah Jackson (Dem) (NOT COUNTED) (96%)
Jamesia James (Dem) (NOT COUNTED) (100%)
Tamara Johnson-Shealey (Dem) (NOT COUNTED) (100%)
Hatt Lieberman (Dem) (NOT COUNTED) (100%)
Joy Felicia Slade (Dem) (NOT COUNTED) (99%)
Ed Tarver (Dem) (NOT COUNTED) (100%)
Raphael Warnock (Dem) (NOT COUNTED) (100%)
Richard Dien Winfield (Dem) (NOT COUNTED) (100%)
Public Service Commission District 1
Robert G. Bryant (Dem) (100%)
Public Service Commission District 4
Daniel Blackman (Dem) (100%)
US House District 6
Lucy McBath (I) (Dem) (100%)
State Senate District 55
Sarah Beeson (Dem) (99%)
State House District 48
Mary Robichaux (I) (Dem) (99%)
District Attorney - Atlanta
Fani Willis (Dem) (98%)
Clerk of Superior Court
Catholeme "Tina" Robinson (I) (Dem) (99%)
Sheriff

Sheriff

Patrick "Pat" Labat (Dem) (96%)

Tax Commissioner

Arthur E. Ferdinand (I) (Dem) (99%)

Surveyor BLANK CONTEST

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Solicitor Genoral
Keith E. Gammage (I) (Dem) (1008)
County Commission District 2
Justin Holsomback (Dem) (998)
Soil and Water - Fulton County
BLANK CONTEST

Constitutional Amendment #1 BLANK CONTEST

Constitutional Amendment #2

BLANK CONTEST
Statewide Referendum A
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